

Classified

RATES PER LINE

Positions Available, Services, Supplies, Courses, and Announcements: first insertion \$5.00, additional insertions \$4.25.
Positions Wanted: first insertion \$2.00, additional insertions \$1.50.
Student Opportunities: first insertion free, additional insertions \$2.00.

For more information, call 202-462-8903 or toll free 800-424-2485.

POSITIONS AVAILABLE

Sedimentologist-Oceanographer/Texas A&M University. Applications are invited for a tenure track faculty position in the general field of marine sedimentology. The position will involve graduate level teaching and supervision of graduate student research. The successful applicant will have demonstrated excellence in or a strong potential for independent research in the field of marine sedimentology. The position is available beginning September 1, 1985. Salary and rank will be commensurate with experience and qualifications. Applicants are invited to submit curricula vitae, copies of publications, names of three persons who may serve as references, and a letter outlining the applicant's teaching and research interests by December 31, 1984, to Robert O. Reid, Distinguished Professor and Head, Department of Oceanography, Texas A&M University, College Station, Texas 77843.

Computer Manager/Minicomputer Specialist. Memphis State University seeks a candidate to manage a PDP 11/44 and a major facility expansion to include a superminicomputer system (VAX 11/785 class) to be dedicated to research applications in the Geological Sciences and Geophysics. Hardware and software are designed for digital seismic data acquisition, digital seismic data processing, and graphical representation of geological and geophysical data. The candidate must have at least a BS degree in Computer Science, Electrical Engineering or related field; three years programming experience including FORTRAN and ASSEMBLY; knowledge of various computer hardware and two or more widely used operating systems; ability to perform numerical data analysis. Knowledge of BASIC and C languages and RSX11M operation system will help. Salary is negotiable depending on experience. Applicants should submit a resume, copies of academic

transcripts, and the names, addresses and telephone numbers of three references to:
Dr. Jer-Ming Chiu
Memphis State University
Tennessee Earthquake Information Center
Memphis, TN 38152
Applications must be received by December 10, 1984.
Memphis State University is an equal opportunity/affirmative action employer.

Carnegie Institution of Washington/Postdoctoral Fellow 1985-88. Department of Terrestrial Magnetism. Endowed postdoctoral fellowships in private institutions, emphasizing maximum freedom of research in areas of seismology, geophysics, isotope and trace element geochemistry, cosmochemistry, aerolite mass spectrometry, planetary, and star and planet formation. Renewable for second year. Completed applications due February 1, 1985. For information write Fellowship Committee (1), Department of Terrestrial Magnetism, Carnegie Institution of Washington, 524 Broad Branch Road, N.W., Washington, D.C. 20015.

Geodesy/Earth/Motion. BTS, an innovative firm located adjacent to NASA/GSFC in suburban Maryland, has a position available for a senior analyst at the MS/PhD level with experience in geodesy and parameter estimation/error analysis techniques. Additional experience in satellite dynamics is beneficial. BTS is a research and development company providing scientific support for government and private industry, and is proud of its people orientation. Professional activities and educational advancement are actively encouraged and supported. We offer an excellent salary structure and progressive benefits. Please send your resume in confidence to: **BUSINESS AND TECHNOLOGICAL SYSTEMS, INC.**

10210 Greenbelt Road, Suite 440
Seabrook, Maryland 20706
Attention: Vaughan Limbrick
U.S. CITIZENSHIP REQUIRED EEO M/F/H/V
Isotope Geochemistry/Mass Spectrometry. McMaster University invites applications for a tenure track position at the Assistant or Junior Associate Professor level. The candidate should have completed the PhD degree and preferably have postgraduate research experience. A strong background in the theory and practical use of mass spectrometers is essential. Familiarity with software, including interfacing, would be a definite asset. At McMaster, there are a number of mass spectrometers for the analysis of both stable and radioactive isotopes. Recent acquisitions include an ICP

quadrupole/mass spectrometer and a five-collector solid source mass spectrometer. The successful candidate will be expected to pursue an independent research program, as well as interact strongly with an active group of geochemists at McMaster. The closing date for applications is February 1, 1985.
In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. Send resume, transcripts and the names of three referees to:
Dr. R.H. McNeill, Chairman
Department of Geology
McMaster University
Hamilton, Ontario, L8S 4M1.

Geophysicist. Ph.D. or M.S. in geophysics. The position requires a broad background in theoretical seismology, applied mathematics, and physics. Experience in seismic programming using FORTRAN is desired. Familiarity with statistical, time series analysis and numerical methods and the UNIX operating system is desirable. Preference will be given to applicants with publications.
Contact: Dr. Zoltan Der or Dr. Keith McLaughlin
314 Montgomery Street
Alexandria, VA 22314
(tel.: 703-836-3882)
Tetelnye Geoset is an equal opportunity employer.

Assistant/Associate Professor of Geophysics. Applications are invited for a tenure track position as assistant or associate professor of geophysics in the College of Oceanography at Oregon State University to complement the present eight-member geophysics faculty. Candidates must have a PhD or equivalent and a demonstrated ability to conduct independent research in theoretical or observational geophysics sustained by external research funding. Most solid earth geophysics research specialties will be considered. Duties will include teaching graduate courses, supervising graduate students and developing a grant-funded research program. Those interested should submit a resume, names of three referees and a brief statement of research plans by February 28, 1985 to:
Arling Dean
College of Oceanography
Oregon State University
Corvallis, OR 97331

Geophysics. Applications are invited for two faculty positions with responsibilities, respectively, in 1) petrology and mineralogy and 2) historical and physical geology. Appointments will be full time assistant professor or associate professor level, non-tenure track, for 2 or 3 years beginning September 1985. Send letter, resume, transcripts, and three recommendations by February 1, 1985 to John B. Brady, Chair, Department of Geology, South College, Northampton, MA 01060.
South College is an equal opportunity employer.

Physical Oceanographer/University of South Carolina. The Marine Science Program and Department of Geology anticipate a tenure track faculty position in physical oceanography to begin in the academic year 1985-86. Salary and rank are dependent upon qualifications; however, preference will be given to applicants at the Assistant Professor level. The Program seeks an applicant with specialty in either theoretical, numerical or field oceanography. Active oceanographic research at the Ph.D. level includes studies of estuarine and coastal circulation, mixing, and transport processes; the molecular and deep ocean mixing; paleoceanography and circulation and physical climatology at coupling in nearshore ecosystems. Applicants must have a Ph.D. degree, substantial qualifications in marine research, and a strong commitment to teaching and research. Submit resume, a brief statement of research interests and names of three referees to: Dr. John Kjerfve, Chairman, Search Committee, Marine Science Program, University of South Carolina, Columbia, SC 29208 before 31 January 1985.

The University of South Carolina is an equal opportunity/affirmative action employer.
Theoretical Space Plasma Physicist. The Space Sciences Laboratory of the University of California at Berkeley seeks applications for a renewable three-year appointment as a Senior Fellow with Principal Investigator status. We are seeking a physicist who has demonstrated leadership and creativity in space plasma theory and who will develop his/her own research group and participate in educational activities of the university departments. The level, to be determined at the time of appointment, will be Assistant, Associate, or Full Research Scientist depending upon qualifications.
Vita, bibliography, statement of prospective research program and three letters of reference should be sent by February 1, 1985 to: R. Buford Price, Director, Space Sciences Laboratory, University of California, Berkeley, CA 94720.
The University is an equal opportunity/affirmative action employer.

Memorial University of Newfoundland Centre for Earth Resources Research, Department of Earth Sciences/Project Geophysicist. Applications from qualified individuals are invited for two (2) Project Geophysicist positions as a part of a CIDA funded programme in Botswana. The job location is in the Department of Geological Survey, Lobatse, Botswana. Expertise in the use of geophysics in mineral exploration and/or groundwater exploration is required. The project runs for five years with initial contracts for a two-year term. The usual overhead allowances and benefits apply. For more information contact:
Dr. J.A. Wright
Department of Earth Sciences
Memorial University of Newfoundland
St. John's, Newfoundland
A1B 3X9
709-757-7580.

University of South Carolina. Two year postdoctoral research assistant position anticipated. Person should have a strong background in structural geology or complexly deformed regions along with an interest in geologic mapping and integration of diverse kinds of geologic and geophysical data. Starting date as early as January 15, 1985. Closing date for applications December 31, 1984. Applications with vitae, transcripts and three references should be sent to: Prof. Robert D. Fletcher, Jr., Department of Geology, University of South Carolina, Columbia, SC 29208.

University of South Carolina is an affirmative action/equal opportunity employer.
Office of Naval Research
GRADUATE FELLOWSHIP PROGRAM
1985
For study and research leading to doctoral degrees in specified engineering/science disciplines.

Introduction: ONR will award up to 45 three-year fellowships for study and research at U.S. institutions offering doctoral degrees in designated fields.

Eligibility: Participants must be U.S. citizens or nationals and receive a baccalaureate degree in 1985.

Objective: To increase the supply of U.S. nationals trained in disciplines critical to the U.S. Navy's mission.

Terms: Fellows selected in 1985 will receive \$13,000 for the first year of tenure. ONR will pay the institution full tuition and fees and provide \$2,000 to the Fellow's department.

Duration: Up to three years if academic progress is satisfactory.

Electrical Engineering
Computer Science
Naval Architecture and Ocean Engineering
Materials Science
Applied Physics
Aerospace Mechanical Engineering
Life Sciences
Mathematics
Secretary of the Navy Fellowships in Oceanography

For application forms and information contact:
ONR Graduate Fellowship
American Society for Engineering Education
11 Dupont Circle, Suite 200
Washington, D.C. 20036

Only U.S. citizens and nationals are eligible. Application deadline: January 31, 1985. Offers of appointment around March 31, 1985. ONR ASEE are equal opportunity employers.

See Announcement for Detailed Information

Research Scientist

MIT's Research Laboratory of Electronics seeks research scientists to work in electromagnetic wave theory and its applications to geophysics. Research emphasizes effects of ionosphere, troposphere and earth crust, EM wave plasma interaction in the ionosphere, VLF collaborative with locally supervised student research, and have demonstrated capability for attracting support. Requires Ph.D. in E.E. or Physics and over 3 years' relevant experience.

Send 2 copies of resume, ATTN: Job No. R84-892, to: Ms. Sally Hanson, MIT Personnel Office, E19-239, 77 Massachusetts Ave., Cambridge, MA 02139.

MIT is an equal opportunity/affirmative action employer.

MIT

Interested individuals should submit a resume, names of three referees and a brief statement of research plans by February 28, 1985 to:

Arling Dean
College of Oceanography
Oregon State University
Corvallis, OR 97331

University of Illinois at Chicago. The Department of Geological Sciences seeks to fill tenure track positions probably, but not necessarily, at the rank of assistant professor, probably effective Fall, 1985, in the following disciplines: 1) Geophysics (preferably in seismology); 2) sedimentary geology. Each person is expected to teach both undergraduate and graduate courses and to conduct a vigorous research program, including the supervision of graduate students. Ph.D. required. Applicants should submit a detailed resume, names and addresses of three referees, and an exploratory statement of research and teaching interests by February 28, 1985, to Robert DeMar, Department of Geological Sciences, University of Illinois at Chicago, Chicago, Illinois 60607. Representation of the Department will be at the AGU Fall Meeting in November.

The University is an equal opportunity/affirmative action employer.
Geosciences. Applications are invited for two faculty positions with responsibilities, respectively, in 1) petrology and mineralogy and 2) historical and physical geology. Appointments will be full time assistant professor or associate professor level, non-tenure track, for 2 or 3 years beginning September 1985. Send letter, resume, transcripts, and three recommendations by February 1, 1985 to John B. Brady, Chair, Department of Geology, South College, Northampton, MA 01060.
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Structural Geologist/Petrologist. The Department of Geology at George Mason University is seeking a Ph.D. graduate to fill a tenure track position at the assistant professor level in the field of structural geology. The successful applicant will teach undergraduate courses in structural geology and supervise graduate students in research. The position is available for a Ph.D. graduate with a strong background in structural geology and petrology, and who is committed to an academic career involving teaching, research and service. The geology program is new, with new equipment in a new science building, 60 graduate students, and 10-20 B.S. graduates each year. The U.S.-Russia and the Smithsonian-Washington are a short distance from the university. Applicants should send a resume and a brief statement of research interests by February 15 to Douglas Mow, Department of Geology, George Mason University, Fairfax, VA 22061, GVP/EOE.

Theoretical Astrophysics/University of Arizona. The University of Arizona is building an interdisciplinary program in theoretical astrophysics. Faculty positions in the fields of Astrophysics, Physics and Planetary Sciences. We are particularly interested in astrophysical theory and areas of interest range from theoretical planetary physics to astrophysics, including galactic and molecular physics, stellar evolution, condensed matter physics, gravitational dynamics, etc.

We have just filled the first position under this initiative. We anticipate filling two more openings in the next few years. Applicants should submit a resume and a brief statement of research interests by February 28, 1985 to:
Arling Dean
College of Oceanography
Oregon State University
Corvallis, OR 97331

University of Minnesota/Structural Geology/Tectonics. The University of Minnesota and the University of Minnesota are seeking a Ph.D. graduate to fill a tenure track position in structural geology. The successful applicant will teach undergraduate courses in structural geology and supervise graduate students in research. The position is available for a Ph.D. graduate with a strong background in structural geology and petrology, and who is committed to an academic career involving teaching, research and service. The geology program is new, with new equipment in a new science building, 60 graduate students, and 10-20 B.S. graduates each year. The U.S.-Russia and the Smithsonian-Washington are a short distance from the university. Applicants should send a resume and a brief statement of research interests by February 15 to Douglas Mow, Department of Geology, George Mason University, Fairfax, VA 22061, GVP/EOE.

Isotope Geochemistry/Economic Geologist/University of Washington. The Department of Geology and Earth Sciences is seeking a Ph.D. graduate to fill a tenure track position in isotope geochemistry. The successful applicant will teach undergraduate courses in isotope geochemistry and supervise graduate students in research. The position is available for a Ph.D. graduate with a strong background in isotope geochemistry and petrology, and who is committed to an academic career involving teaching, research and service. The geology program is new, with new equipment in a new science building, 60 graduate students, and 10-20 B.S. graduates each year. The U.S.-Russia and the Smithsonian-Washington are a short distance from the university. Applicants should send a resume and a brief statement of research interests by February 15 to Douglas Mow, Department of Geology, George Mason University, Fairfax, VA 22061, GVP/EOE.

Faculty Position in Historical Oceanography. An academic position (tenure track) is presently available at the Assistant Professor level in the Department of Oceanography, Naval Postgraduate School. An ocean dynamics and physical oceanography background is preferred. The candidate should be competent in

the analysis of pertinent observations, and be able to teach a variety of graduate courses in physical oceanography. The applicant should have a Ph.D. with an academic background in physical oceanography or a closely related field. Desirable attributes include field experience, interest in the use of satellite data, and a strong interest in the use of satellite data. The successful candidate will be expected to teach one or two quarters per year, conduct sponsored research, and supervise graduate students. The position is available for a Ph.D. graduate with a strong background in physical oceanography and petrology, and who is committed to an academic career involving teaching, research and service. The geology program is new, with new equipment in a new science building, 60 graduate students, and 10-20 B.S. graduates each year. The U.S.-Russia and the Smithsonian-Washington are a short distance from the university. Applicants should send a resume and a brief statement of research interests by February 15 to Douglas Mow, Department of Geology, George Mason University, Fairfax, VA 22061, GVP/EOE.

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Isotope Geochemistry/Economic Geologist/University of Washington. The Department of Geology and Earth Sciences is seeking a Ph.D. graduate to fill a tenure track position in isotope geochemistry. The successful applicant will teach undergraduate courses in isotope geochemistry and supervise graduate students in research. The position is available for a Ph.D. graduate with a strong background in isotope geochemistry and petrology, and who is committed to an academic career involving teaching, research and service. The geology program is new, with new equipment in a new science building, 60 graduate students, and 10-20 B.S. graduates each year. The U.S.-Russia and the Smithsonian-Washington are a short distance from the university. Applicants should send a resume and a brief statement of research interests by February 15 to Douglas Mow, Department of Geology, George Mason University, Fairfax, VA 22061, GVP/EOE.

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THE AEROSPACE CORPORATION SPACE SCIENCES LABORATORY

The Space Sciences Laboratory of The Aerospace Corporation invites applications for a full-time position in the Atmospheric Sciences Department to carry out research in upper atmosphere and ionospheric physics and the effects of the near-earth space environment on space systems. Ongoing activities include investigations of the earth's mesosphere, thermosphere and ionosphere and their interactions with the magnetosphere. These investigations make use of both ground and space-based instrumentation and involve the collection, analysis and theoretical interpretation of data of basic scientific interest.

The applicant will be expected to participate in individual and collaborative research projects involving both experimental and theoretical components. A PhD and, preferably, 2-3 years of experience in one or more of the following areas is desired: space plasma physics theory, auroral and ionospheric processes, radiation transport, atomic and molecular spectroscopy, ionospheric physics, upper atmospheric dynamics and chemistry, optical and electro-optical instrumentation, modeling and analysis of spacecraft/rocket data, especially as related to remote sensing and allied theoretical disciplines.

Salary will be commensurate with experience. Applicants should send a letter of interest and a resume including the names of three references to:



The Aerospace Corporation

Dr. Joe M. Straus
Space Sciences Laboratory M2/255
Dept. 00624
P.O. Box 92957
Los Angeles, CA 90009

An Affirmative Action Employer
U.S. Citizenship Required

line PDP 11-34 computer; major experiments in seismic reflection and reflection profiling for crustal structure; and allied research in tectonophysics. The opportunity exists to participate with several other faculty in an integrated program of tectonics, seismology and sedimentary geology directed toward crustal studies and petroleum exploration. The geophysics component of the department has active research and teaching programs in electrical and electromagnetic methods, thermal properties of the earth, petrological fields, and geophysics. The department has close associations with the numerical analysis and data processing groups in computer science, electrical engineering, and mathematics. The closing date for applications is December 31, 1984, and the appointment date is September 15, 1985. A Ph.D. is required for this position. Applicants should submit a vita, transcripts, and a letter disclosing higher research and teaching goals and names of five persons for reference. Qualified persons should send their applications to William F. Nash, Chairman, Department of Geology and Geophysics, University of Utah, Salt Lake City, Utah 84132-1183.

The University of Utah is an equal opportunity/affirmative action employer.
Chairperson/University of Tulsa, Department of Geosciences. Nominations and applications are invited for the position of Chairperson. Candidates should have a Ph.D. and a distinguished record of research and teaching. Leadership and administrative skills and experience to interact effectively with academics, industry and alumni are required. The department of geosciences has ten faculty members and is located in a new teaching and research complex. There is a strong emphasis on soft rock geology and exploration geophysics in the department which has grown steadily in the last decade. Equipment includes a VAX 11-750 computer with an array processor and seismic data processing software, SEM, microprobe, XRF, XRD, gas chromatograph, and a mass spectrometer. Library resources which are supported by "Petroleum Abstracts" are excellent.

Nominations and applications should be sent to: Colin Barker, Department of Geosciences, University of Tulsa, 600 South College, Tulsa, Oklahoma 74104 by January 15, 1985.
The University of Tulsa is an equal opportunity/affirmative action employer.
Seismologist/University of Puerto Rico. The University of Puerto Rico and the Center for Energy and Environmental Research seek applications for a position in the field of seismology. The position is for a tenure track position at the University of Puerto Rico, Cayey and investigation of data from a 20-station short period, digital seismic network in Puerto Rico and the Virgin Islands. The applicant is expected to have demonstrated ability to work with data from a seismic network or ability to work on seismic hazard problems.

All interested persons should submit a letter of application, a detailed resume of educational experience and a summary of interests to:
Dr. William R. McCann
Lamont-Doherty Geological Observatory
Palisades, New York 10964
Telephone: 914-350-2900 ext. 377

Seismologist/University of Utah. The Department of Geology and Geophysics at the University of Utah seeks applicants for a tenure track faculty position in seismology at the assistant to associate professor level. Applicants with backgrounds and specialties in seismic imaging, seismic reflection or geophysical seismology will be given preference. The department is currently expanding its research in seismology and geophysics as well as field research opportunities both on land and at sea. Majors in physics, engineering and mathematics as well as geological sciences welcome. Apply to:
Professor Ken C. Macdonald
Graduate Advisor
Department of Geological Sciences
University of Utah
Santa Barbara, CA 93106

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University of Utah
Santa Barbara, CA 93106

SOLAR PHYSICIST - BRANCH CHIEF

SPACE SCIENCE LABORATORY NASA-MARSHALL SPACE FLIGHT CENTER

Huntsville, Alabama 35812

The Solar-Terrestrial Division expects to appoint a solar physicist to the position of chief of the Solar Science Branch. The Branch's fifteen members (six Ph.D.), visitors (NRCC post-docs, summer faculty, etc.), contractors, and associates are involved in an active research program in solar physics. A broad range of research topics is being pursued at present, with emphasis on the formation and structure of the transition region, the occurrence and consequences of distorted magnetic fields and their accompanying electric currents, and numerical modeling of coronal evolution and interplanetary dynamics. Branch activities include the operation of a vector magnetograph, the analysis of data from the UltraViolet Spectrometer and Polarimeter (UVSP) instrument aboard the Solar Maximum Mission Satellite, and the utilization of MSFC engineers with the scientific aspects of solar missions (e.g., Sunlab, Advanced Solar Observatory and Pinhole/Occultor Facility). In addition, x-ray spectroscopy development work is underway. Computing facilities are currently being upgraded and soon will be unsurpassed anywhere. Collaborations with extramural colleagues are encouraged, and there is the opportunity to train and advise graduate students.

The appointee must be a recognized research scientist with administrative interests. In addition to performing his or her own research, the appointee will be expected to guide the work of the Branch and to pursue new directions as appropriate. It will be the responsibility of the Branch chief to recruit new Branch members, post-docs, and visitors as opportunities arise. The Branch chief will oversee the submission of proposals for funding and will be expected to work closely with the Office of Solar and Heliospheric Physics at NASA Headquarters. Salary will be GS14 or 15 (\$42,828 - \$55,642) depending on experience and qualifications.

Forward resumes and references to the following address no later than January 15, 1985:

Dr. C. R. Chappell
ES51
NASA/Marshall Space Flight Center
Huntsville, AL 35812

NASA

U.S. Citizenship Required

Equal Opportunity Employer

